

## BIOGRAPHY AND BIBLIOGRAPHY

### Petr Wolfgang Wygodzinsky (1916-1987)

#### BIOGRAPHY

Dr. Petr (Pedro, Peter, Wygo) W. Wygodzinsky died in Middletown, New York, on January 27, 1987 of complications from Parkinson's disease.

He was born in Bonn, Germany, on October 5, 1916 and educated at the University of Basle, Switzerland, where he received his doctorate in 1941 under the direction of Eduard Handschin. After a short time in Portugal, he emigrated to Brazil as a bicycle mechanic in 1941. However, through a woman he met aboard ship on the way to Brazil he was able to make contacts that allowed him to begin work as a taxonomist for the National Malarial Service within a short time of his arrival and later for the Ministry of Agriculture in Rio de Janeiro. During his stay in Brazil he became close friends with Herman Lent and Hugo de Souza Lopes.

In 1948 Wygodzinsky moved to Tucuman, Argentina, where he was employed as a specialist on the taxonomy of the Simuliidae at the Institute of Regional [Tropical] Medicine of the National University of Tucuman and where he was also Professor of Entomology and Genetics in the Faculty of Natural Sciences. He took this job in response to an advertisement for a simuliid specialist; although never having worked on the group, he assumed since he had mastered several other groups, black flies should present no particular problem. He moved to the Instituto Miguel Lillo, also in Tucuman, in 1954, where he pursued his taxonomic interests. From 1959 to 1962 Wygodzinsky served as Professor of Entomology at the National University in Buenos Aires, Argentina.

Wygodzinsky was a widely known and highly respected biologist in Argentina and Brazil. His legacy there includes disciples in entomology (Diptera, Heteroptera, and Coleoptera), botany, and genetics. In 1976 he was elected a Corresponding Member of the Brazilian Academy of Sciences. A year later, the University of La Plata recognized his contributions by conferring on him the title of Doctor Honoris Causa, an honor which was presented on the centenary of the Museum.

During his employment in Argentina he received two Guggenheim Fellowships (1955, 1960) to study at the University of California at Berkeley, with his close friend Robert L. Usinger. While at Berkeley he became acquainted with Jerome Rozen, then a graduate student at the University of California, who was much impressed with Wygodzinsky's entomological talents. After Rozen became chairman of the Department of Entomology at the American Museum, he offered a position to Peter, who accepted and moved to New York in 1962. Many times Wygodzinsky reflected on his indebtedness to Rozen for having made that opportunity possible. It was at the American Museum that he was able to pursue work on the large manuscripts that became one of his trademarks.

At the American Museum of Natural History, Peter was put in charge of the collections of Diptera and Heteroptera. The Museum had a large fly collection; he added mostly Simuliidae and Agromyzidae. The bug collection was modest, and dominated by members of the large and showy families. Wygodzinsky, bringing with him from South America a substantial collection of Reduviidae which was purchased



Fig. 1. Wygodzinsky (center) in the field; probably near Tafi del Valle, Argentina in the early 1950's. Two other men unidentified.

by the Museum, instituted a new period of growth in the bug collection. Through his efforts the Heteroptera collection of the Museum of Comparative Zoology was transferred to the American Museum as was a large collection of Dipsocoromorpha assembled by Michael Emsley. Wygodzinsky took particular pleasure in acquiring specimens of cryptic and ground dwelling Heteroptera and did much to build up those groups in the collections.

Peter was an exceptional and avid collector, securing specimens not only for his own work, but also for that of many others. He was acutely observant and extremely knowledgeable about where to catch insects. As a result, numerous species in many families and orders have been named for him from collections he made. He shunned mass collecting techniques because he wanted to see alive the creatures he was finding. He took much pride in discovering rarely found species.

In 1964 Peter married a young artist, Bona, then working at the Museum as a secretary in the Department of Entomology. She accompanied him on four collecting trips to Mexico and the Andean region of South America, where over a total of six months they collected and reared many species of black flies.

He had many successful field trips and preferred to work in higher latitudes and altitudes. He expressed his disinterest in the genus *Simulium* by noting that most

species, at least in South America, lived in the tropical lowlands. He collected in Argentina, Brazil, Chile, Peru, Ecuador, Colombia, Venezuela, Mexico, the Caribbean and North America. Peter recounted with a certain chagrin a black-fly-collecting trip to Peru and Chile in 1972. He and Sixto Coscarón arrived in Chile just before the military coup which overthrew Salvador Allende, and spent a good part of the time in their hotel watching the army take over the government and the country. One brief excursion to the countryside did yield a few important black flies. The next stop was Peru, in Cuzco Department and Machu Picchu. Unfortunately, there had been no rains and the local stream habitats had no water in them. Although he travelled widely in the New World he never returned to Europe and had no desire to do so. Though he valued the freedom of scientific enquiry that the Museum position allowed, he remained an Argentine citizen.

Wygodzinsky was the first scientist at the American Museum (and one of the first in North America) to introduce, employ, and argue for the efficacy of Hennig's methods of phylogenetic systematics. He believed this approach was the only one relevant for investigations in systematic biology and argued his point of view vigorously upon his arrival in New York in 1962. To him, those who could not see the importance of these ideas and employ them were simply "fuzzy thinkers."

Wygodzinsky thought it essential to make one's own illustrations in order to begin to understand the structure of the insect. Although he published about 21,000 illustrations, he often said he wanted to publish a monograph consisting entirely of illustrations. He was of the view that publishing productivity should be measured by a formula that included not only numbers of titles and pages, but also—and importantly—the number of illustrations made by the author.

He believed that compound microscopes and slide mounted specimens were essential to seeing and understanding the anatomy of insects. He routinely prepared illustrations while making microscopic observations, and thus began to amass basic manuscript materials. Many projects found their beginnings in the form of a few drawings of what he thought was an interesting specimen or structure. He believed in the adage that one picture is worth a thousand words, and had little patience with those who disparaged the value of illustrations.

Having gone to school in Europe and lived in South America, Wygodzinsky was fluent in German, English, Spanish, Portuguese and French. It was dazzling to watch him switch from one language to another when in the company of several people whose native languages were different. His use of English was remarkably versatile for a non-native speaker. He at times enjoyed mixing Portuguese and Spanish expressions with English for improved meaning or to convey a certain type of humor. Peter prepared a translation of Willi Hennig's paper "The Diptera fauna of New Zealand as a problem in systematics and zoogeography" (Wygodzinsky, 1966)—on his honeymoon!

Wygodzinsky had little taste for administrative duties, and on the one occasion at the American Museum when he served as the acting department chairman for a year and a half he found the task onerous and disheartening. Even the workday activities of the Museum seemed to be distracting at times, but what he might not have accomplished during the week he always more than made up for on the weekends. Although it was never particularly obvious from the outside, he was influential in the affairs of the American Museum and particularly the Department of Entomology.





Fig. 2. Wygodzinsky at his microscope at the American Museum, about 1968.

Wygodzinsky's name was an anomaly to many, requiring such attention to spell that it was seldom spelled incorrectly. Peter knew he was the last of the Wygodzinskys, and a check by him of European phone books failed to turn up any listings of the name. His given name, on the other hand, changed from Petr to Pedro when he moved to South America and in North America some colleagues used "Peter." Most people ended up calling him Wygo or Pedro, but he responded gracefully to all.



Peter never drove an automobile, but in Argentina adopted the motorcycle as his preferred conveyance. Robert Usinger, in his autobiography (Usinger, 1972), commented that on a visit to Tucuman he would ride back and forth from his hotel to the Instituto Lillo on the back of Wygodzinsky's motorcycle. He used it to go on many field excursions in search of insects. Years later while walking the streets of New York he cast appreciative glances at motorcycles.

One of Peter's foremost loves was cats. He kept pictures, photographs, articles, books, and cartoons about them, and had two cats while in New York. He especially liked long-haired varieties. He often expressed the view that were he to have another life he would want to live it as a cat.

In the late 1970's Wygodzinsky realized that he had Parkinson's disease and began to put his affairs in order. He curated a large collection of Neotropical Agromyzidae and associated leaf mines that he assembled while in South America; this was a group that interested him much, but on which he never published. He also enlisted the talents of his Scientific Assistant, Kathleen Schmidt, to help finish a monograph of the genera of Western Hemisphere Enicocephalidae. This project was originally conceived as a joint effort with R. L. Usinger—Wygodzinsky to do the morphology and higher group work, Usinger to do the species treatments. Usinger's untimely death in 1968 terminated that plan, but Wygodzinsky never lost interest.

As a child Peter was interested in Lepidoptera, but they consumed so much storage space that he switched his attention to other groups, particularly the Heteroptera. His dissertation was a detailed morphological and life history study of the Diplura, Thysanura, and Microcoryphia of Switzerland (Wygodzinsky, 1941). He became acquainted with Herman Lent shortly after moving to Brazil and began to study the Reduviidae, often in collaboration with Lent. He also studied during this time the family Schizopteridae, producing the first detailed work on the morphology of the group.

Much of his time at Berkeley on Guggenheim Fellowships was devoted to a monograph of the assassin bug subfamily Emesinae, which, when finished in 1966, was one of the largest papers ever published by the American Museum and included more than 3,600 figures. His final major paper on the Reduviidae was a revision of the Triatominae co-authored with Herman Lent and published by the American Museum of Natural History (1979). He continued studying the black fly fauna of the Andean region, mostly in cooperation with Sixto Coscarón of La Plata, Argentina, which work was supported in part with research funds from the National Science Foundation. Of the several important papers published on the group, probably the most significant will be the forthcoming "Revision of *Gigantodax*," co-authored with Sixto Coscarón, with its discussion of the classification of the genus based on descriptions of larvae, pupae, and adults of 64 species, 36 of them new.

During his career, Wygodzinsky published in excess of 250 scientific papers (see Bibliography). His work will stand not only for its prodigious and detailed nature, but also for its breadth of coverage, something accomplished by few systematists in this day and age.

Though a private individual, Peter was a warm and gentle person who was much concerned about and interested in the problems, affairs, and triumphs of his friends and colleagues. Each morning, without fail, he visited every member of the Department to chat for a while. He was loved by all and it was with much pain and sadness

that we watched his gradual deterioration and debilitation brought on by Parkinson's disease. Even years later we still remember, think, and talk about Wygo; he was an affecting man.—*Randall T. Schuh and Lee H. Herman, Department of Entomology, American Museum of Natural History, New York, New York 10024.*

## LITERATURE CITED

- Lent, H. and P. Wygodzinsky. 1979. Revision of the Triatominae (Hemiptera, Reduviidae), and their significance as vectors of Chagas' Disease. *Bull. Amer. Mus. Nat. Hist.* 163(3): 123–520.
- Usinger, R. L. 1972. Robert Leslie Usinger: Autobiography of an Entomologist. *Mem. Pacific Coast Entomol. Soc.* 4:330.
- Wygodzinsky, P. W. 1941. Beiträge zur Kenntnis der Dipluren und Thysanuren der Schweiz. *Denkschr. Schweiz. Naturf. Ges.* 74(2):1–227.
- Wygodzinsky, P. 1966. [Translation of] The Diptera fauna of New Zealand as a problem in systematics and zoogeography, by Willi Hennig. *Pacific Insects Monogr.* 9:1–81.

## BIBLIOGRAPHY

**Note:** When not Wygodzinsky, senior author in italics.

*Diplura, Microcoryphia, and Thysanura*

1939. Beitrag zur Kenntnis der Thysanuren Palästinas. *Extr. Bull. Soc. Fouad Ier d'Entomol.* 23:73–85.
1940. Eine *Maindronia* (Lepismatidae, Thysanura) aus Südamerika. *Verhandl. Naturf. Ges. Basel* 51:25–28.
1940. Beiträge zur Kenntnis der Dipluren und Thysanuren der Schweiz. *Verhandl. Naturf. Ges. Basel* 51:40–64.
1941. Thysanuren aus Nordafrika und von den Atlantischen Inseln. *Mitt. Schweizer. Entomol. Ges.* 18(4–5):249–272.
1941. Beiträge zur Kenntnis der Dipluren und Thysanuren der Schweiz. *Denkschr. Schweiz. Naturf. Ges.* 74(2):1–227, pls. I–IV.
1941. Zur Kenntnis einiger europäischen Dipluren und Thysanuren. *Verhandl. Naturf. Ges.* 52:63–100.
1941. Über eine neue *Campodea* und eine neue *Lepismachilis* aus Südeuropa. *Entomol. Meddel.* 22(2):137–141.
1941. Contribution à l'étude du genre *Machilis* Latreille. *Rev. Française d'Entomol.* 8(1):7–14.
1941. Uma espécie nova de *Symphylurinus* (Diplura, Projapygidae) do Brasil. *Rev. de Entomol.* 12(3):531–534.
1942. Second contribution towards the knowledge of Diplura and Thysanura from Palestine. *Rev. Brasil. Biol.* 2(1):29–46.
1942. Um novo gênero e uma nova espécie de lepismatideo mirmecofilo (Thysanura). *Rev. de Entomol.* 13(1–2):49–54.
1942. Sobre uma nova espécie de *Attatelura* de Surinam (Thysanura, Lepismatidae). *Rev. Brasil. Biol.* 2(4):435–438.
1942. Um nova gênero e duas novas espécies de lepismatideo termitofilo do planalto

- central do Brasil (Lepismatidae, Thysanura). Rev. de Entomol. 13(3):354–359.
1943. Nota sobre um gênero de Lepismatideo ecitofilo (Thysanura, Lepismatidae). Rev. de Entomol. 14(1–2):260–262.
1943. Sobre una neuva especie de *Eutrichocampa* Silvestri, 1901 (Campodeidae, Diplura). Notas del Museo de La Plata 8(66):141–145.
1943. Sobre um novo gênero e uma nova espécie da subfamília Nicoletiinae (Lepismatidae, Thysanura) do estado de Pernambuco (Brasil). Rev. Brasil. Biol. 3(3):351–353.
1943. Note on the origin and classification of Apterygota. Rev. de Entomol. 14(3):516–521.
1944. Contribuição ao conhecimento dos Entotrophi e Thysanura (Apterygota, Insecta) de Portugal. I. Introdução. Família “Campodeidae” (Entotrophi). Rev. Brasil. Biol. 4(4):367–404.
1944. Contribuição ao conhecimento da família Machilidae (Thysanura) do Mexico do Brasil e da Argentina. Rev. de Entomol. 15(1–2):54–96, 190 figs.
1944. Contribuição ao conhecimento da família Campodeidae (Entotrophi, Insecta) do Mexico. An. Escuela Nac. Cien. Biol. 3(3–4):367–404.
1944. Sobre uma nova espécie de *Plusiocampa* (Entotrophi, Campodeidae) do Brasil. Papeis avulsos Dep. Zool. Secr. Agr. São Paulo 4(19):303–308, 14 figs.
1945. Contribuição ao conhecimento dos “Entotrophi” e “Thysanura” de Portugal. II. Família “Machilidae” (Thysanura). Rev. Brasil. Biol. 5(1):69–80.
1945. Contribuição ao conhecimento dos “Entotrophi” e “Thysanura” de Portugal. III. Família “Lepismatidae” (Thysanura). Conclusões. Rev. Brasil. Biol. 5(3):419–433.
1945. Sobre um novo gênero e uma nova espécie de Machilidae do Mexico (Thysanura). Ciencia, Mexico 6(3):108–110.
1946. Sobre uma nova espécie do gênero *Symphylurinus* Silvestri (Projapygidae, Entotrophi) de São Paulo, Brasil. Livro de homenagem a R. F. d’Almeida 42:341–346.
1946. Sobre *Nicoletia* (*Anelpistina*) Silvestri 1905 e *Prostehecina* Silvestri, 1933 (Insecta, Lepismatidae). Ciencia, Mexico 7(1–3):15–23.
1948. Redescription of *Nesomachilis maoricus* Tillyard, 1924, with notes on the family Machilidae (Thysanura). Dominion Mus. Rec. Entomol. 1(6):69–78.
1948. Contribucion al conocimiento de las “Lepismatinae” Americanas (“Lepismatidae,” “Thysanura”). Acta Zool. Lilloana 6:215–227.
1949. Notas y descripciones de algunas “Machilidae” Americanas (Thysanura, Insecta). Acta Zool. Lilloana 7:593–622.
1950. Results of the zoological scientific expedition of the National Museum in Praha to Turkey. 5. Thysanura. Machilidae and Lepismatidae. Acta Entomol. Mus. Nat. Pragae 26:1–9.
1950. The 3rd Danish Expedition to Central Asia. Zoological Results 2. Thysanura (Insecta) aus Afghanistan. Vidensk. Medd. fra Dansk Naturh. Foren. 112:139–155.
1951. Contribution to a knowledge of the Machilidae of Madagascar (Thysanura, Insecta). Mem. Inst. Sci. Madagascar 5(A-2):359–366.



1951. Thysanura from Juan Fernandez Island (Apterygota). Rev. Chil. Entomol. 1:199–204.
1952. On some Machilidae from the Himalayas (Insecta, Thysanura). Ann. Mag. Nat. Hist. 5, ser. 12:42–46.
1952. Notes on the Thysanura (Insecta, Apterygota) of the Canary Islands. Zool. Meded. 31(20):225–232.
1952. Apuntes sobre “Thysanura” Americanas (Apterygota, Insecta). Acta Zool. Lilloana 11:435–458.
1952. Contribution towards a knowledge of the Thysanura (Apterygota, Insecta) of the Belgian Congo. Rev. Zool. Bot. Afrique 46(3–4):373–385.
1952. On some Machilidae and Lepismatidae from Israel, Cyprus and Arabia (Thysanura, Insecta). Bull. Research Council Israel 2(3):260–263.
1953. Über einige Machiliden aus Indonesien (Thysanura, Insecta). Verh. Naturf. Ges. Basel 64(2):347–355.
1953. Thysanura de l’Ile de Zannone (Apterygota). Estr. Boll. Soc. Entomol. Italiana 83(9–10):134–136.
1954. Notes and descriptions of Thysanura (Apterygota). Proc. Roy. Entomol. Soc. London, Series B, Taxonomy 23(3–4):41–46.
1954. The Thysanura of the Netherlands (Apterygota, Insecta). Natuurh. Maandblad. 43(10):67–80.
1955. Thysanura. Soc. Sci. Fennica. Comm. Biol. 15(11):1–4.
1955. Thysanura. South African Animal Life, Results of Lund Univ. Exped. 1950–1951 2:83–190.
1955. Contributions à l’étude de la faune entomologique du Ruanda-Urundi (Mission P. Basilewsky 1953). II. Thysanura Lepismatidae. Ann. Mus. Congo, Tervuren 36(8):17–20.
1957. Notes and descriptions of Machilidae and Lepismatidae (Thysanura). Proc. Roy. Entomol. Soc. London 26(B, 5–6):89–98.
1957. Thysanura from the Pelagic Islands (Apterygota). Estr. Boll. Soc. Entomol. Italiana 87(7–8):109–113.
1958. Sobre algunos “Nicoletiidae” Americanos (Thysanura, Insecta). Acta Zool. Lilloana 16:97–120.
1958. Notes et descriptions de Machilida et Thysanura paléarctiques. Rev. Française Entomol. 25(4):298–315.
1958. Beobachtungen an Spermatolophiden und Spermatophoren bei Nicoletiidae (Thysanura, Insecta). Zool. Anz. 161(11–12):280–287.
1958. On some Thysanura and Machilida from French West Africa. Bull. de l’I.F.A.N. 20(A-4):1145–1175.
1959. Beitrag zur Kenntnis der Machilida und Thysanura der Türkei. Opuscula Ent. 24(1–2):36–54.
1959. Thysanura and Machilida of the Lesser Antilles and northern South America. Studies on the fauna of Curaçao and other Caribbean islands 9(36):28–49.
1959. Contribution to the knowledge of the “Thysanura” and “Machilidae” (Insecta). Rev. Brasil. Biol. 19(4):441–457.
1960. On a new species of *Machiloides* Silvestri from Grahamstown, South Africa (Machilidae). Entomol. Mon. Mag. 96:219–220.
1961. A new genus of termitophilous Atelurinae from South Africa (Thysanura: Nicoletiidae). J. Entomol. Soc. S. Africa 24(1):104–109.

1961. On a surviving representative of the Lepidotrichidae (Thysanura). *Ann. Entomol. Soc. Amer.* 54(5):621–627.
1961. Synonymical notes on the Lepismatidae (Thysanura). *Pan-Pacific Entomol.* 37(4):213–216.
1962. Neue Beiträge zur Kenntnis der Thysanura und Machilida Afghanistans. *Opuscula Entomol.* 27(3):219–228.
1962. On some Thysanura and Machilida from the Azores (Insecta). *Bol. Mus. Municipal Funchal* 16:28–32.
1963. On J. Paclt's Nicoletiidae (Thysanura) in the "Genera Insectorum." *Ann. Mag. Nat. Hist.* 6, ser. 13:265–269.
1965. LXXXVII. Thysanura. *Ann. Mus. Roy. Afrique Centrale, Tervuren* 138: 79–87.
1967. On the geographical distribution of the South American Microcoryphia and Thysanura (Insecta). *Biol. l'Amérique Australe* 3:505–524.
1969. Two new South African Machilids of the genus *Machiloides* (Microcoryphia, Insecta). *Amer. Mus. Novitates* 2377:1–10.
1970. Results of the zoological explorations of Dr. E. Kaszab in Mongolia. 202. Thysanura and Microcoryphia (Insecta). *Amer. Mus. Novitates* 2401:1–25.
1970. Thysanura associated with termites in southern Africa (Insecta). *Bull. Amer. Mus. Nat. Hist.* 142(3):213–254.
1970. La faune terrestre de l'Île de Sainte-Hélène (Première partie). 3. Thysanura. *Ann. Mus. Roy. Afrique Centrale* 181:155–160.
1971. A note on a fossil machilid (Microcoryphia) from the amber of Chiapas, Mexico. *Univ. California Pub. Entomol.* 63:101–102.
1972. A review of the silverfish (Lepismatidae, Thysanura) of the United States and the Caribbean area. *Amer. Mus. Novitates* 2481:1–26.
1973. Description of a new genus of cave Thysanuran from Texas (Nicoletiidae, Thysanura, Insecta). *Amer. Mus. Novitates* 2518:1–8.
1974. Notes and descriptions of Machilidae from the Old World (Microcoryphia, Insecta). *Amer. Mus. Novitates* 2555:1–21.
1977. [with Ana Maria Hollinger]. A study of Nicoletiidae from Cuba (Thysanura). Pages 317–324 in: *Résultats des expéditions biospéologiques Cubano-Roumaines à Cuba*, Ed. Acad. Republicii Socialiste Romania.
1978. Two new species of *Neomachillellus* Wygodzinsky (Meinertellidae, Microcoryphia) from the state of Amazonas, Brazil. *Acta Amazonica* 8(2):303–307.
1980. A survey of the Nicoletiinae of Europe (Nicoletiidae, Thysanura, Insecta). *Amer. Mus. Novitates* 2695:1–24.
1980. [with Kathleen A. Schmidt]. Survey of the Microcoryphia (Insecta) of the northeastern United States and adjacent provinces of Canada. *Amer. Mus. Novitates* 2701:1–17.
1982. Description of a new species of *Trichatelura* (Insecta, Thysanura, Nicoletiidae) from Ecuador. *Sociobiology* 7(1):21–24.

#### *Heteroptera*

1943. Contribuição ao conhecimento da subfamília Vesciinae (Hemiptera, Reduviidae). *Rev. Brasil. Biol.* 3(2):203–223.

1943. Contribuição ao conhecimento do gênero *Salyavata* (Salyavatinae, Reduviidae, Hemiptera). Bol. Mus. Nac. Zool. 6:1–27.
1943. Contribuição ao conhecimento do gênero *Stenolemus* Signoret, 1858 (Ploiarinae, Reduviidae, Hemiptera). Rev. Brasil. Biol. 3(4):443–451.
1943. Notas sobre as espécies brasileiras do gênero *Aradus* (Aradidae, Hemiptera). Rev. de Entomol. 14(3):502–510.
1944. Sobre uma nova espécie do gênero *Chryxus* Champion, 1898 (Chryxinae, Reduviidae, Hemiptera). Rev. Brasil. Biol. 4(2):167–171.
1944. Contribuição ao conhecimento do gênero *Elasmodema* Stål, 1860 (Elasmodemidae, Reduvidae, Hemiptera). Rev. Brasil. Biol. 4(2):193–213.
1944. Notas sobre a biologia e o desenvolvimento de *Macrocephalus notatus* Westwood (Phymatidae, Reduvidae, Hemiptera). Rev. de Entomol. 15(1–2):139–143.
1944. Contribuição ao conhecimento da subfamília Zelinae (Reduviidae, Hemiptera). I. Descrição do macho de *Lindus sahlbergi* (Stål, 1860). Rev. Brasil. Biol. 4(3):355–361.
1944. Nova espécie do gênero *Aradomorpha* Champion, 1899 (Hemiptera, Reduvidae). Rev. Brasil. Biol. 4(4):475–481.
1944. Sobre um novo gênero e uma nova espécie da subfamília Emesinae (Reduviidae, Hemiptera). Rev. Brasil. Biol. 4(4):539–544.
1944. Additional notes on the Brazilian species of the genus *Aradus* (Aradidae, Hemiptera). Rev. de Entomol. 15(3):329–331.
1944. Notas sobre Reduvidae (Hemiptera). Rev. de Entomol. 15(3):342–351.
1945. [with J. C. M. *Carvalho*]. Neotropical Miridae: XIV. A new genus and a new species of Phylinae from Dutch Guiana (Hemiptera). Rev. Brasil. Biol. 5(1):33–35.
1945. [with Herman *Lent*]. Nova espécie de *Zelurus* (*Opisthacidius*) da Amazonia (Reduviidae, Hemiptera). Rev. Brasil. Biol. 5(1):133–138.
1945. Notas e descrições de Emesinae neotropicais (Reduviidae, Hemiptera). Rev. Brasil. Biol. 5(2):247–262.
1945. Duas espécies novas de Emesinae, dos gêneros *Ploiaria* e *Rothbergia* (Reduviidae, Hemiptera). Rev. de Entomol. 16(1–2):244–248.
1945. Sobre o gênero *Metapterus* Costa, 1860, com notas sobre outros Emesinae neotropicais (Hemiptera). Rev. de Entomol. 16(3):462–470.
1945. Notas sobre Reduviidae de Venezuela, com a descrição de uma nova espécie de Emesinae (Hemiptera). Bol. Entomol. Venezolana 4(3):149–152.
1945. [with Herman *Lent*]. Contribuição ao conhecimento do gênero *Zelurus* Hahn (*Spiniger* auct.) (Reduviidae, Hemiptera). Mem. Inst. Oswaldo Cruz 43(2):205–269.
1946. Contribution towards the knowledge of the Isoderminae (Aradidae, Hemiptera). Rev. de Entomol. 17(1–2):266–273.
1946. Contribuição ao conhecimento do gênero *Agriocleptes* Stål, 1866 (Apomerinae Reduviidae, Hemiptera). Rev. Brasil. Biol. 6(2):149–157.
1946. Sobre um novo gênero e uma nova espécie de Chryxinae e considerações sobre a subfamília (Reduviidae, Hemiptera). Rev. Brasil. Biol. 6(2):173–180.
1946. Sobre um novo gênero e uma nova espécie de Microphysidae do Brasil (Cimicoidea, Hemiptera). Rev. Brasil. Biol. 6(3):333–340.



1946. Sobre duas novas espécies de Emesinae do Brasil, com notas sobre *Stenolemoides arizonensis* (Banks) (Reduviidae, Hemiptera). Rev. Brasil. Biol. 6(4): 509–519.
1946. Sobre um novo gênero de Harpactorinae do Brasil, com notas sobre os gêneros *Harpactor* Laporte e *Erbessus* Stål (Reduviidae, Hemiptera). Rev. de Entomol. 17(3):401–416.
1946. Contribution towards the knowledge of the genus *Malacopus* Stål, 1860, with the description of two new species (Emesinae, Reduviidae, Hemiptera). Rev. de Entomol. 17(3):457–467.
1947. Contribuição ao conhecimento do gênero *Heniartes* Spinola, 1837 (Apiomerinae, Reduviidae, Hemiptera). Arquivos Mus. Nac. 41:3–65.
1947. Sobre algumas espécies de “*Zelurus*” Hahn (Reduviidae, Hemiptera). Rev. Brasil. Biol. 7(1):25–55.
1947. Novas contribuições ao conhecimento dos “*Stenolemus*” das Americas (Emesinae, Reduviidae, Hemiptera). Rev. Brasil. Biol. 7(1):127–144.
1947. Sobre um novo gênero e uma nova espécie de Schizopterinae do Brasil (Cryptostemmatidae, Hemiptera). Bol. Entomol. Venezolana 6(1):25–35.
1947. Sobre um novo genero e uma nova especie de Ectrichodiinae do Brasil (Reduviidae, Hemiptera). Rev. Brasil. Biol. 7(3):301–305, 17 figs.
1947. [with Herman *Lent*]. Contribuição ao conhecimento dos “Reduviinae” Americanos (Reduviidae, Hemiptera). Rev. Brasil. Biol. 7(3):341–368.
1947. Sur le *Trichotonannus setulosus* Reuter, avec une théorie sur l’origine des harpagones des Hétero-ptères males (Hemiptera, Heteroptera, Cryptostemmatidae). Rev. Franç. Entomol. 14(2):118–125.
1947. Sobre alguns “Reduviidae” do Brasil central (Hemiptera). Rev. Brasil. Biol. 7(4):423–434.
1947. Sobre um novo gênero neotropico de Vesciinae, com considerações sobre a subfamília (Reduviidae, Hemiptera). Rev. de Entomol. 18(3):411–416.
1947. Notes on some assassin bugs of the genus *Zelurus* from the collections of the United States National Museum. Proc. U. S. Nat. Mus. 97(3217):343–349.
1948. [with Herman *Lent*]. On two genera of American “Reduviinae,” with a key and notes on others (Reduviidae, Hemiptera). Rev. Brasil. Biol. 8(1):43–55.
1948. On two new genera of “Schizopterinae” (“Cryptostemmatidae”) from the neotropical region (Hemiptera). Rev. Brasil. Biol. 8(1):143–155.
1948. Contribution towards the knowledge of the genus *Cryptostemma* Herrich-Schaeffer, 1835 (Cryptostemmatidae, Hemiptera). Rev. de Entomol. 19(2): 283–294.
1948. Notes on *Megaploiaria* McAtee & Malloch, 1926, with the description of a new species from Australia (Emesinae, Reduv., Hem.). Entomol. Medd. 25: 231–236.
1948. On some “Reduviidae” belonging to the Naturhistorisches Museum at Vienna (Hemiptera). Rev. Brasil. Biol. 8(2):209–224.
1948. Sobre uma nova espécie de *Hoplitocoris* (Enicocephalidae, Hemiptera) de Angola (Africa Ocidental Portuguesa). Publ. Cult., Museu do Dundo, Lisboa 1948:5–8.
1948. Über die Verbreitung und Synonymie *Ploiaria dohrni* (Signoret, 1863) (Hemipt., Reduviidae). Mitt. Schweiz. Entomol. Ges. 21(3):471–475.

1948. Sobre *Panstrongylus* del Peru, con la descripcion de una nueva especie (Triatominae, Reduviidae, Hemiptera). An. Inst. Med. Reg. Tucuman 2(2):197-208, 22 figs.
1948. Studies on some apterous Aradidae from Brazil (Hemiptera). Bol. Mus. Nac.—Zool. 86:1-23, pls. I-XIV.
1948. Sôbre alguns Reduviidae da região Amazonica (Hemiptera). Rev. de Entomol. 19(3):557-564.
1948. El genero "Diarthrotarsus" Bergroth, 1905 (Harpactorinae, Reduviidae, Hemiptera). Acta Zool. Lilloana 6:201-213.
1949. Elenco sistemático de los Reduviiformes Americanos. Univ. Nac. Tucuman Inst. Med. Regional, Monogr. 1(473):1-101.
1949. "Reduvidioidea" from New South Wales. Description of a remarkable new genus and species of "Emesinae" (Reduviidae, Hemiptera). Rev. Brasil. Biol. 9(2):217-222.
1949. Notas sobre Reduviidae Argentinos (Hemiptera). An. Inst. Med. Reg. 2(3):335-340.
1949. Sôbre um nova gênero neotropico de Ectrichodiinae (Reduviidae, Hemiptera). Rev. de Entomol. 20(1-3):579-582.
1949. Redescription of "Gamostolus subantarcticus" (Berg, 1883) (Enicocephalidae, Hemiptera). Rev. Brasil. Biol. 9(3):353-358.
1949. [with J. W. Abalos]. *Triatoma guasayana* sp. n. (Triatominae, Reduviidae, Hemiptera). Suplemento Diario de "La Semana Medica," Buenos Aires 56(2920):2.
1950. On the genus *Mirambulus* Breddin, 1901, with general notes on the subfamily Vesciinae (Reduviidae, Hemiptera). Ann. Mag. Nat. Hist. ser. 12, 3:265-268.
1950. [with J. W. Abalos]. *Triatoma guasayana* Wygodzinsky y Abalos, 1949, con notas especies vecinas (Triatominae, Reduviidae, Hemiptera). An. Inst. Med. Reg. 3(1):53-73.
1950. Sobre algunos *Stenolemus* Americanos (Emesinae, Reduviidae, Hemiptera). An. Inst. Med. Reg. 3(1):99-110.
1950. Sobre *Bertilia valdiviana* (Philippi, 1865) (Cimicidae, Hemiptera). An. Inst. Med. Reg. 3(1):119-122.
1950. Schizopterinae from Angola (Cryptostemmatidae, Hemiptera). Companhia de Diamantes de Angola 7:1-47.
1950. Reduvidioidea from New South Wales. Notes and descriptions (Hemiptera). Proc. Linnean Soc. New South Wales 75(1-2):81-88.
1950. Sôbre alguns "Emesinae." Rev. Brasil. Biol. 10(1):73-84.
1950. Contribution towards the knowledge of the "Emesinae" (Reduviidae, Hemiptera). Rev. Brasil. Biol. 10(2):241-251.
1950. Sobre el genero *Bergemesa* Nov. (Emesinae, Reduviidae, Hemiptera). An. Soc. Cient. Argentina 150:28-48.
1950. Sobre el genero *Palacus* Dohrn, 1863 (Emesinae, Reduviidae, Hemiptera). Bol. Entomol. Venezolana 8(3-4):103-114.
1950. Contribution towards the knowledge of the family "Cryptostemmatidae" (Hemiptera). Rev. Brasil. Biol. 10(4):377-392.

1951. [with Herman *Lent*]. Estudos sôbre o gênero *Zelurus* Hahn (Reduviidae, Hemiptera). Rev. Brasil. Biol. 11(1):1-28.
1951. [with Herman *Lent*]. Estudos sôbre o gênero *Zelurus* Hahn (Reduviidae, Hemiptera). Rev. Brasil. Biol. 11(2):173-179.
1951. Sôbre algumas espécies do gênero *Ghilianella spinola*, 1850 (Emesinae, Reduviidae, Hemiptera). Rev. Brasil. Biol. 11(2):223-226.
1951. On *Bragylia* Stål, 1965, *Pseudobargylia*, gen. nov. and *Leistarches serripes* Dohrn, 1860 (Emesinae, Reduviidae, Hemiptera). Ann. Mag. Nat. Hist. ser. 12, 4:609-617.
1951. [with Herman *Lent*]. Contribuição ao conhecimento de *Zelurus fulvomaculatus* (Berg. 1879) e sete outras espécies afins (Reduviidae, Hemiptera). Mem. Inst. Oswaldo Cruz 49:575-594.
1951. Notas sobre Cimicidae de la Republica Argentina (Hemiptera). An. Inst. Med. Reg. 3(2):185-197.
1951. Descripcion de generos y especies nuevos de la familia "Crypstemmatidae" (Hemiptera). Rev. Brasil. Biol. 11(3):259-270.
1951. Notas sobre Ectrichodiinae neotropicales (Hemipt. Reduviidae). Rev. Soc. Entomol. Argentina 15:35-52.
1951. [with J. W. *Abalos*]. Las Triatominae Argentinas. Inst. Med. Regional, Monogr. 2(601):1-178.
1951. Contribucion al conocimiento del genero *Metapterus* Costa, 1860, de las Americas y de Juan Fernandez (Hemiptera, Reduviidae). Rev. Chilena Entomol. 1:113-128.
1952. Note on some Emesinae (Reduviidae, Hemiptera) from Israel. Bull. Res. Council Israel 1(4):102-104.
1952. Los insectos de las Islas Juan Fernandez. 2. Reduviidae y Cimicidae (Hemiptera). Rev. Chilena Entomol. 2:15-19.
1952. On some Emesinae from South Africa (Reduviidae, Hemiptera). J. Entomol. Soc. S. Africa 15(2):150-158.
1952. Sobre algunos Cryptostemmatidae principalmente de la Argentina (Hemiptera). Acta Zool. Lilloana 10:51-74.
1953. Cryptostemmatinae from Angola (Cryptostemmatidae, Hemiptera). Companhia de Diamantes de Angola, Mus. do Dundo [no vol. no.], 29-47.
1953. Contribuição ao conhecimento dos gêneros *Heniartes* Spinola, 1837 e *Agriocleptes* Stål, 1866 (Apiomerinae, Reduviidae, Hemiptera). Rev. Brasil. Biol. 13(4):369-380.
1953. On a new species of *Eugubinus* Distant, 1903, with notes on the genus (Emesinae, Reduviidae, Hemiptera). Dominion Mus. Rec. Entomol. 1(10): 213-218.
1953. Apuntos sobre "Emesinae" Americanas (Reduviidae, Hemiptera). Acta Zool. Lilloana 14:281-315.
1954. On some Emesinae from Equatorial Africa (Hemiptera, Reduviidae). Ann. Mus. Congo Tervuren, in-4, Zool. 1:569-573.
1954. [with Herman *Lent*]. Contribuição ao conhecimento das espécies de *Zelurus* do grupo *femoralis* (Reduviidae, Hemiptera). Rev. Brasil. Biol. 14(4):407-442.



1954. [with A. *Herrer* and H. *Lent*]. Contribucion al conocimiento del genero *Belminus* Stål, 1959 (Triatominae, Reduviidae, Hemiptera). An. Inst. Med. Reg. 4(1):85–106.
1954. [with S. *Briones*]. Nota sobre mutaciones del color del ojo en *Triatoma infestans* (Klug). An. Inst. Med. Reg. 4(1):115–118.
1955. [with Herman *Lent*]. Espécies Bolivianas dos gêneros *Zelurus* Hahn e *Opisthacidius* Berg (Reduviidae, Hemiptera). Rev. Brasil. Biol. 15(1):103–110.
1955. [with Herman *Lent*]. Espécies Venezuelanas dos gêneros *Zelurus* Hahn e *Opisthacidius* Berg (Reduviidae, Hemiptera). Rev. Brasil. Biol. 15(2):177–190.
1955. [with Herman *Lent*]. Espécies de *Zelurus* Hahn e *Opisthacidius* Berg de Colômbia, Ecuador e Peru (Reduviidae, Hemiptera). Mem. Inst. Oswaldo Cruz 53(1):135–142.
1955. Description of a new *Cryptostemma* from North America (Hemiptera: Cryptostemmatidae). Pan-Pacific Entomol. 31(4):199–202.
1955. Nota adicional sobre mutaciones del color en *Triatoma infestans* (Klug). An. Inst. Med. Reg. 4(2):241–243.
1956. Synopsis of the Australian Emesinae (Hemiptera: Reduviidae). Univ. California Pub. Entomol. 11(4):193–245.
1956. [with Herman *Lent*]. Situação atual do gênero *Opisthacidius* Berg, 1879 (Hemiptera, Reduviidae). Rev. Brasil. Biol. 16(3):327–334.
1957. [with Herman *Lent*]. Notas sôbre *Zelurus* Hahn (Hemiptera, Reduviidae). Rev. Brasil. Biol. 17(1):21–42.
1957. [with Joe C. *Elkins*]. A new neotropical harpactorine genus (Reduviidae, Hemiptera). Rev. Brasil. Biol. 17(2):203–210.
1957. On the “Reduviidae” mentioned or described by Carlos Berg (Hemiptera, Insecta). Rev. Brasil. Biol. 17(2):263–274.
1958. [with J. *Carayon* and R. L. *Usinger*]. Notes on the higher classification of the Reduviidae, with the description of a new tribe of the Phymatinae. Rev. Zool. Bot. Africanes 57(3–4):256–281.
1958. New and little known Emesinae (Reduviidae, Hemiptera) in the British Museum (Natural History), London. Bull. British Mus. (Nat. Hist.) Entomol. 7(6):329–346.
1958. Hemiptera (Heteroptera): Dipsocoridae. South African Animal Life, Results Lund Univ. Exped. 1950–1951 5:113–149.
1958. Hemiptera (Heteroptera): Emesinae. S. African Animal Life, Results Lund Univ. Exped. 1950–1951 5:113–149.
1959. A new Hemipteran (Dipsocoridae) from the Miocene amber of Chiapas, Mexico. J. Paleont. 33(5):853–854.
1959. Sôbre os gêneros *Pseudozelurus* Lent & Wygod. y *Zeluroides* Lent & Wygod. (Reduviinae, Reduviidae, Hemiptera). Rev. Brasil. Biol. 19(4):351–365.
1959. Notas y descripciones de Reduviidae Bolivianas (Hemiptera). Acta Zool. Lilloana 17:293–320.
1959. Un nouvel *Hypselosoma* de Madagascar, avec la description d’autres espèces et des observations sur le genre (Schizopterinae, Dipsocoridae, Hemiptera). Mem. Inst. Sci. Madagascar 11(E):509–539.

1960. [with Robert L. Usinger]. Insects of Micronesia Heteroptera: Enicocephali-  
dae. Bernice P. Bishop Museum 7(5):218–230.
1960. [with Robert L. Usinger]. Insects of Micronesia Heteroptera: Reduviidae.  
Bernice P. Bishop Museum, Insects of Micronesia 7(5):231–283.
1960. On four new species of *Schidium* (Emesinae, Reduviidae, Hemiptera) from  
Angola. Companhia de Diamantes de Angola, Mus. do Dundo 52:57–63.
1961. Studies on the fauna of Curaçao and other Caribbean Islands. Dipsocoridae.  
The Heteroptera of the Netherlands Antilles. IV. Dipsocoridae. 53:62–66.
1963. [with R. L. Usinger]. Classification of the Holoptilinae and description of  
the first representative from the New World (Hemiptera: Reduviidae). Proc.  
Roy. Entomol. Soc. London 32(B, 3–4):47–52.
1964. [with R. L. Usinger]. The genus *Reduvius* Fabricius in western North America  
(Reduviidae, Hemiptera, Insecta). Amer. Mus. Novitates 2175:1–15.
1964. [with R. L. Usinger]. Description of a new species of *Mendanacoris* Miller,  
with notes on the systematic position of the genus (Reduviidae, Hemiptera,  
Insecta). Amer. Mus. Novitates 2204:1–13.
1966. [with Robert L. Usinger and Raymond E. Ryckman]. The biosystematics of  
Triatominae. Ann. Rev. Entomol. 11:309–330.
1966. [with Herman Lent]. Os tipos de G. Breddin de “*Spiniger*” (= “*Zelurus*”  
Hahn) (Hemiptera, Reduviidae). Rev. Brasil. Biol. 26(2):145–164.
1966. A monograph of the Emesinae (Reduviidae, Hemiptera). Bull. Amer. Mus.  
Nat. Hist. 133:1–614.
1967. [with Roland F. Hussey]. *Orthunga* Dohrn, 1859 (Insecta: Hemiptera). Pro-  
posed addition to the official list of generic names in zoology. Z.N.(S.) 1767.  
Bull. Zool. Nomencl. 24(1):39–40.
1968. [with Roland F. Hussey]. On the authorship of the generic name *Tagalis* and  
the invalidity of the family-group name “*Tagalidae*” (Hemiptera: Reduvi-  
idae). J. N. Y. Entomol. Soc. 76:34–36.
1968. [with Herman Lent]. Situação atual das espécies de “*Zelurus*” Hahn do grupo  
“*formosus*” (Hemiptera, Reduviidae). Rev. Brasil. Biol. 28(3):317–326.
1970. [with Pavel Stys]. A new genus of aenicopecheine bugs from the Holarctic  
(Enicocephalidae, Hemiptera). Amer. Mus. Novitates 2411:1–17.
1972. [with Aristides Herrer and Marcelino Napan]. Presencia de *Trypanosoma*  
*rangelia* Tejera, 1920, en el Peru. I. El insecto vector, *Rhodnius ecuadoriensis*  
Lent & Leon, 1958. Rev. Biol. Trop. 20(1):141–149.
1972. [with Jenaro Maldonado Capriles]. Description of the first genus of physo-  
derine assassin bugs (Reduviidae, Hemiptera) from the New World. Amer.  
Mus. Novitates 2504:1–7.
1974. Description of the first winged species of *Pseudobargylia* (Emesinae, Redu-  
viidae, Hemiptera). Mem. Nat. Mus. Victoria 35:111–113.
1975. [with R. H. Cobben]. The Heteroptera of the Netherlands Antilles—IX. Re-  
duviidae (Assassin Bugs). Studies on the Fauna of Curaçao and other Carib-  
bean Islands 48(158):1–62.
1979. [with Herman Lent]. Revision of the Triatominae (Hemiptera, Reduviidae),  
and their significance as vectors of Chagas’ Disease. Bull. Amer. Mus. Nat.  
Hist. 163(3):123–520.

1979. A note on *Empicoris seorsus* Bergroth (Hemiptera: Reduviidae: Emesinae). New Zealand J. Zool. 6:53-56.
1980. [with Herman Lent]. Description of one new monotypic genus of Reduviinae from Panama and two from southern India (Hemiptera, Reduviidae). Rev. Brasil. Biol. 40(4):733-742.
1982. [with Pavel Stys]. Two new primitive genera and species of Enicocephalidae from Singapore (Heteroptera). Acta Entomol. Bohemoslovaca 79:127-142.
- In Prep. [with Kathleen Schmidt]. Monograph of the New World Enicocephalidae. Bull. Amer. Mus. Nat. Hist.
- In Prep. [with Sarfraz Lohdi]. Atlas of reduviid antennal trichobothria. J. New York Ent. Soc.

### Diptera

1949. Contribuciones al conocimiento de los Simuliidae Argentinos. I. Introduccion. Redescrpcion de *Simulium lahillei* Paterson y Shannon, 1927 (Diptera). An. Inst. Med. Reg. 2(3):303-319.
1949. Contribuciones al conocimiento de los Simuliidae Argentinos. II. *Gigantodax horcotiani* sp. n. de la provincia de Tucumán (Diptera). An. Inst. Med. Reg. 2(3):325-333.
1950. [with C. Romana]. Acerca de la transmission de *Mansonella ozzardi* (Manson) (Filaria tucumana Biglieri y Araoz). An. Inst. Med. Reg. 3(1):29-34.
1950. Contribuciones al conocimiento de los Simuliidae Argentinos. III. *Simulium dinellii* (Joan, 1912) y *Simulium wolffheugeli* (Enderlein, 1922). An. Inst. Med. Reg. 3(1):75-97.
1951. Sobre *Gigantodax horcotiani* Wygodzinsky, 1949, y *Gigantodax wittmeri* sp. n. An. Inst. Med. Reg. 3(2):199-206.
1951. Sobre *Simulium jujuyense* Paterson y Shannon, 1927, *Simulium exiguum* Roubaud, 1906 y *Simulium opalinifrons* (Enderlein, 1934). An. Inst. Med. Reg. 3(2):207-220.
1951. Sobre *Simulium ignescens* Roubaud, 1906, *Simulium romanai* sp. n. y *Simulium adolfolti* sp. n. (Simuliidae, Diptera). An. Inst. Med. Reg. 3(2):221-236.
1952. Los insectos de las Islas Juan Fernandez. 6. Simuliidae (Diptera). Rev. Chilena Entomol. 2:81-85.
1953. Sobre algunos Simulidos Argentinos (Diptera). An. Inst. Med. Reg. 3(3):293-320.
1953. Sobre algunos Simulidos de los paises Andinos (Diptera). An. Inst. Med. Reg. 3(3):321-337.
1953. [with Luis A. Leon]. Los Simulidos del Ecuador (Diptera). Bol. Informaciones Cient. Nac. 6(57):269-288.
1958. Notas y descripciones de "Simuliidae" Patagonicos y Andinos (Diptera). Acta Zool. Lilloana 16:121-148.
1960. [with S. Coscaron]. Sobre la presencia de la familia Simuliidae (Diptera, Insecta) en la provincia de Buenos Aires. Orientacion Med. (9)432:1124-1125.
1961. Trabajos originales. Sobre una nueva especie de *Simulium* de la Provincia



- de Buenos Aires (Simuliidae, Diptera). Acta Kravsi, Cuaderno Inst. Nc. Microbiol. 2:30-36.
1962. [with S. Coscaron]. On the relationships and zoogeographical significance of *Austrosimulium anthracinum* (Bigot), a blackfly from southern South America (Diptera: Simuliidae). Pacific Insecta 4(1):235-244.
1962. [with S. Coscaron]. Simuliidae (Diptera, Insecta) de Tierra del Fuego, Patagonia e Islas Juan Fernandez. Acta Zool. Lilloana 18:281-333.
1966. [A translation of] The Diptera fauna of New Zealand as a problem in systematics and zoogeography, by Willi Hennig. Pacific Insects, Monogr. 9:1-81.
1967. [with Sixto Coscaron]. A review of *Simulium* (*Pternaspatha*) Enderlein (Simuliidae, Diptera). Bull. Amer. Mus. Nat. Hist. 136(2):47-116.
1970. [with A. Diaz Najera]. Un nuevo genero de Simulido de la Republica Mexicana (Diptera: Simuliidae). Rev. Inves. Salud Publica (Mexico) 30(2):83-110.
1970. [with Sixto Coscaron]. A new species-group of the blackfly genus *Simulium* from western South America (*Simulium*, Diptera, Insecta). Amer. Mus. Novitates 2433:1-20.
1971. Descriptions and redescriptions of species of the blackfly genus *Simulium* from the northern Andes (Simuliidae, Diptera). Amer. Mus. Novitates 2447:1-38.
1972. [with Sixto Coscaron]. Taxonomy and distribution of the black fly subgenus *Simulium* (*Pternaspatha*) Enderlein (Simuliidae, Diptera, Insecta). Bull. Amer. Mus. Nat. Hist. 147(4):199-240.
1972. [with Sixto Coscaron]. Notas sobre Simulidos neotropicales III. Sobre tres especies de jejenes con hembras de color claro, del SE del Paraguay y del NE de la Argentina. Extr. Rev. Mus. de La. Plata (Nueva Serie) 11:209-231.
1973. A black fly of the subgenus *Simulium* (*Psaroniocompsa*) (Simuliidae, Diptera) from the High Andes of Colombia. Amer. Mus. Novitates 2513:1-11.
1973. On a species of *Simulium* (*Ectemnaspis*) from the northeastern United States (Diptera). J. N. Y. Entomol. Soc. 81(1):10-12.
1973. [with Sixto Coscaron]. Notas sobre Simulidos neotropicales. II. Sobre *Simulium* (*Psaroniocompsa*) *opalinifrons* (Enderlein) y notas sobre el subgenero (Insecta, Diptera). Physis Secc., C. Buenos Aires 32(84):161-172.
1973. [with Sixto Coscaron]. A review of the Mesoamerican and South American black flies of the tribe Prosimuliini (Simuliinae, Simuliidae). Bull. Amer. Mus. Nat. Hist. 161(2):129-200.
1973. [with Sixto Coscaron]. Notes on South American black flies of the Tribe Prosimuliini (Simuliinae, Simuliidae, Diptera). Amer. Mus. Novitates 2529:1-9.
1973. [with Sixto Coscaron]. Notas sobre Simulidos neotropicales. IV. Sobre la presencia de *Simulium inequale* Paterson y Shannon en el noreste de la Argentina y sudeste del Paraguay, y una nueva especie muy afin (Diptera, Simuliidae). Rev. Soc. Entomol. Argentina 34(1-2):141-149.
1973. Diagnoses of new species of *Gigantodax* Enderlein (Simuliidae, Diptera) from the northern Andes. J. N. Y. Entomol. Soc. 81(4):243-246.
1973. [with Sixto Coscaron]. Notas sobre Simulidos neotropicales. V. Aportes para el conocimiento del subgenero *Simulium* (*Notolepria*) Enderlein (Diptera-Simuliidae). Rev. Soc. Entomol. Argentina 34(3-4):277-288 [1973-1974].

1979. [with Sixto Coscaron]. Description of a black fly of the subgenus *Simulium* (*Pternaspatha*) from the high Andes of Ecuador (Diptera, Simuliidae). Amer. Mus. Novitates 2670:1-9.
1979. [with Herman Lenti]. Revision of the Triatominae (Hemiptera, Reduviidae) and their significance as vectors of Chagas' disease. Bull. Amer. Mus. Nat. Hist. 163(3):123-520.
1982. [with Sixto Coscaron]. Description of three unusual species of the black fly subgenus *Simulium* (*Ectemnaspis*) from the Andes of Colombia (Diptera, Simuliidae). Amer. Mus. Novitates 2736:1-13.
1988. [with Sixto Coscaron]. Revision of the genus *Gigantodax* Enderlein (Diptera: Simuliidae). Bull. Amer. Mus. Nat. Hist.

*Miscellaneous*

1948. [with Walter Zikan]. Catalogo dos tipos de insetos do Instituto de Ecologia e Experimentação agrícolas. Bol. Servicio Nac. Pesquisas Agronomicas 4:1-93, *Errata*.
1957. Nota sobre el metodo de Beeks para preparaciones permanentes de cromosomos. Rev. Argentina Agronomia 24(3):118-120.